

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/666,404	09/19/2003	Douglas Weldon Carico JR.	71570	8956
75	90 10/19/2006		EXAM	INER
Michael K. Ca	rrier	•	SANDERS, KRIELLION ANTIONETTE	
Eastman Chemi	cal Company			
P.O. Box 511			ART UNIT	PAPER NUMBER
Kingsport, TN 37662-5075			1714	

DATE MAILED: 10/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summary	10/666,404	CARICO ET AL.			
onice Action Summary	Examiner	Art Unit			
The MAIL INC DATE (4)	Kriellion A. Sanders	1714			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (36(a). In no event, however, may a reply be to the will apply and will expire SIX (6) MONTHS from the application to become ABANDON	DN. imely filed m the mailing date of this communication. IED (35 U.S.C. & 133)			
Status					
1)⊠ Responsive to communication(s) filed on <u>17 Ja</u>	ulv 2006				
_	· · · · · · · · · · · · · · · · · · ·				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E					
Disposition of Claims					
4) Claim(s) 1-39 is/are pending in the application 4a) Of the above claim(s) 2-10,12 and 14-39 is 5) Claim(s) is/are allowed. 6) Claim(s) 1,11 and 13 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-39 are subject to restriction and/or of the specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11. The oath or declaration is objected to by the Examine 11. The oath or declaration is objected to by the Examine 11. The oath or declaration is objected to by the Examine 11. The oath or declaration is objected to by the Examine 11. The oath or declaration is objected to by the Examine 11. The oath or declaration is objected to by the Examine 11. The oath or declaration is objected to by the Examine 11. The oath or declaration is objected to by the Examine 11. The oath or declaration is objected to by the Examine 11. The oath or declaration is objected to by the Examine 11.	election requirement. er. epted or b) objected to by the drawing(s) be held in abeyance. Setion is required if the drawing(s) is of	Examiner. ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list .	es have been received. Is have been received in Applicative documents have been received in Received in PCT Rule 17.2(a)).	tion No ved in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Date			

DETAILED ACTION

Election/Restrictions

1. Claims 1, 11 and 13 are under consideration. Applicant's election of Group I, claims 1-17, drawn to a liquid coating composition, and the species of sulfopolyester polymer and anthraquinone blue toner dye in the paper filed 10/28/2005 is acknowledged. Because applicant did not specify the reasons for traversal the election is being treated as an election without traverse. Claims 1, 11 and 13 read upon the elected species. Claims 2-10, 12 and 14-39 are withdrawn as being drawn to a non-elected invention/species. If necessary, search will be extended to determine the patentability of a generic claim.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 11 and 13are rejected under 35 U.S.C. 103(a) as being unpatentable over Weaver et al., US Patent No. 4804719 in view of Weaver et al., US Patent No. 5384377, Strand et al., US Patent No 5688899 taken with Kibler et al, US Patent No. 3779993 and Blount et al, US Patent No. 5378757.

Application/Control Number: 10/666,404

Page 3 Art Unit: 1714

- 3. Weaver et al '719 discloses water-dispersible polymers, containing colorants as an integral part of the polymer structure. The polymers are useful in adhesives, coating materials, films, packaging materials, and products that can be dissolved or otherwise dispersed in cold or hot water. Aqueous dispersions of the colored polymers have utility as inks, paints, and other coatings where it is advantageous to use aqueous as opposed to organic solvents. The polymer compositions useful in the Weaver compositions are described in U.S. Pat. Nos. 3,734,874, 3,779,993 to Blount, of record and relied upon herein, 3,828,010, 4,233,196, and 3,546,008. These base polymers are defined as water-dispersible polymeric material having linking groups comprising at least about 20 mole % carbonyloxy and up to about 80 mole % carbonylamido. Said material containing water-solubilizing sulfonate groups and having reacted onto or into the polymer backbone from about 0.01 to about 40 mol % based on the total of all reactant hydroxy, carboxy or amino equivalents, of colorant comprising one or more heat stable organic compounds initially having at least one condensable group. Useful colorants for the invention include the carboxy, hydroxy, ester, acid halides, and amino derivatives of such types of compounds as anthraquinones; methines; bis-methines; 3H-dibenz[f,ij]isoquinoline 2,7-diones (anthrapyridones); triphenodioxzines; fluoridines; phthaloylpyrrocolines; coumarins; 4-amino-1,8-naphthalimides; thioxanthones; 2,5-arylaminoterephthalic acids (or esters); benzanthrones; and indanthrones, etc, wherein said colorants containing at least one condensable group.
- Weaver et al '377 discloses blue anthraquinones and red anthraquinones or 4. anthrapyridones used in combination to provide a blue hue to polyester resins that are subject to yellowing. Because the components are essentially the same as applicant's, they are expected to

possess the same absorption properties. See col. 11, line 61 through col. 12, line 56 and claims 1, 2 and Table 11.

- 5. Strand et al discloses blue anthraquinones and red anthraquinones used in combination to improve the clarity of polyester resins that are subject to yellowing. Because the components are essentially the same as applicant's, they are expected to possess the same absorption properties. See col. 2, line 7 through col. 3, line 7 and Table 1.
- 6. Kibler et al discloses polyesters that have been modified with a sulfonate metal salt group, and wherein the resulting polymers are useful for forming aqueous coating compositions.
- 7. Blount, Jr. et al discloses water dissipatable alkyd resins that have been modified with a sulfonate monomer. The resulting resins possess ester groups and are

 Used for forming coating compositions. The coating compositions may include blue colorants.

 See col. 7, line 3 through col. 8, line 14.

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the blue anthraquinones and red anthraquinones of Weaver et al '377or Strand et al into the polyester coatings of Weaver et al '719 or Kibler et al or the alkyd coatings of Blount et al. to provide their expected coloring properties. There is nothing unexpected in making such a variation.

1. Applicant argues that the toner systems taught in Weaver and Strand are not water-dispersable. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., that the toner systems taught in Weaver and Strand are not water-dispersable) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations

from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Applicant's claims as amended require that the polyester or alkyd polymer be water-dispersible, not that the toner system be water dispersible. Because the polyesters of Weaver are essentially the same as applicant's polyesters, it is believed that they would possess the same properties as applicant's polyesters. Compare the description of the Weaver '377 polyesters at col. 11, line 61 through col. 13, line 3 to the description of applicant's polyesters at page 33, line 20 through page 34, line 17. The acid and glycol reactants and weight ratios of the Weaver '377 reactants are essentially the same as applicant's.

2. In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, Weaver et al, '719 provides clear incentive for combining water-dispersible polyesters with red and blue toner dyes such as those disclosed by Weaver et al'377.

Information Disclosure Statement

Applicant is reminded that any prior art cited on form 1449 must include a month and year of publication to be initialed and signed on form 1449.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kriellion A. Sanders whose telephone number is 571-272-1122. The examiner can normally be reached on Monday through Thursday 8:30am-7:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kriellion A. Sanders
Primary Examiner
Art Unit 1714